

To: Sally Margus / EPA	OFFICE:	(206) 553-0165 FAX#:
FROM: 1 Floyd Damron	A. Control of the Con	CH2M HILL/ANC Omnifax G35
DATE: 2/5/9/ EMPLOYEE#: 3228		(907) 278-2551/office (907) 277-9736/fax
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TELECOPY ORDER FORM

MEMORANDUM

CHAMHILL

TO:

Douglas R. Redburn/ADEC

COPIES:

Sally Marquis/EPA

Kris Warren/AWWU

FROM:

Floyd J. Damron/ANC

DATE:

February 5, 1991

SUBJECT:

Point Woronzof WWTP NPDES/301(h) Renewal

PROJECT:

ANC26264.A1

Per your request we have reviewed the available receiving water dissolved metals data for the six metals that have been considered for site specific criteria (Cr+6, Cu, Hg, Ni, Pb, and Zn). Receiving water samples were taken in February and August, 1990, and analyzed for dissolved metal concentrations. Using this data proposed ZID (180:1 dilution). For this calculation we used the highest receiving water dissolved metal concentration and the highest effluent metal concentration for each of the six metals. In all cases, the proposed ZID boundary metal concentration is calculated to be lower than receiving water standards. This is shown on the attached figure.

The proposed ZID boundary concentration of copper came the closest to the receiving water standard. 2.6 ug/l is 93 percent of the 2.9 ug/l standard. This resulted from an effluent sample with 180 ug/l of copper, an unusually high effluent concentration for this facility. Even with this high concentration, the standard would not have been exceeded.

The following table contains data used for the figure:

POINT WORONZOF WWTP NPDES/301(h) RENEWAL RECEIVING WATER DISSOLVED METALS - ug/l - 180:1 DILUTION					
METAL	MAX EFFLUENT CONCENTRAT.	1 1 01	RECEIVING WATER STD.	MAX ZID BOUNDARY CONC.	
Cr+6	30	0.27	50	0.43	
Cu	180	1.7	2.9	2.7	
Hg	1.5	0.00042	0.025	0.0087	
Ni	100	1.5	7.1	2.0	
Pb	50	0.023	5,6	0.30	
Zn	610	4.1	58	7,5	

